

EME with the Biggest Dish

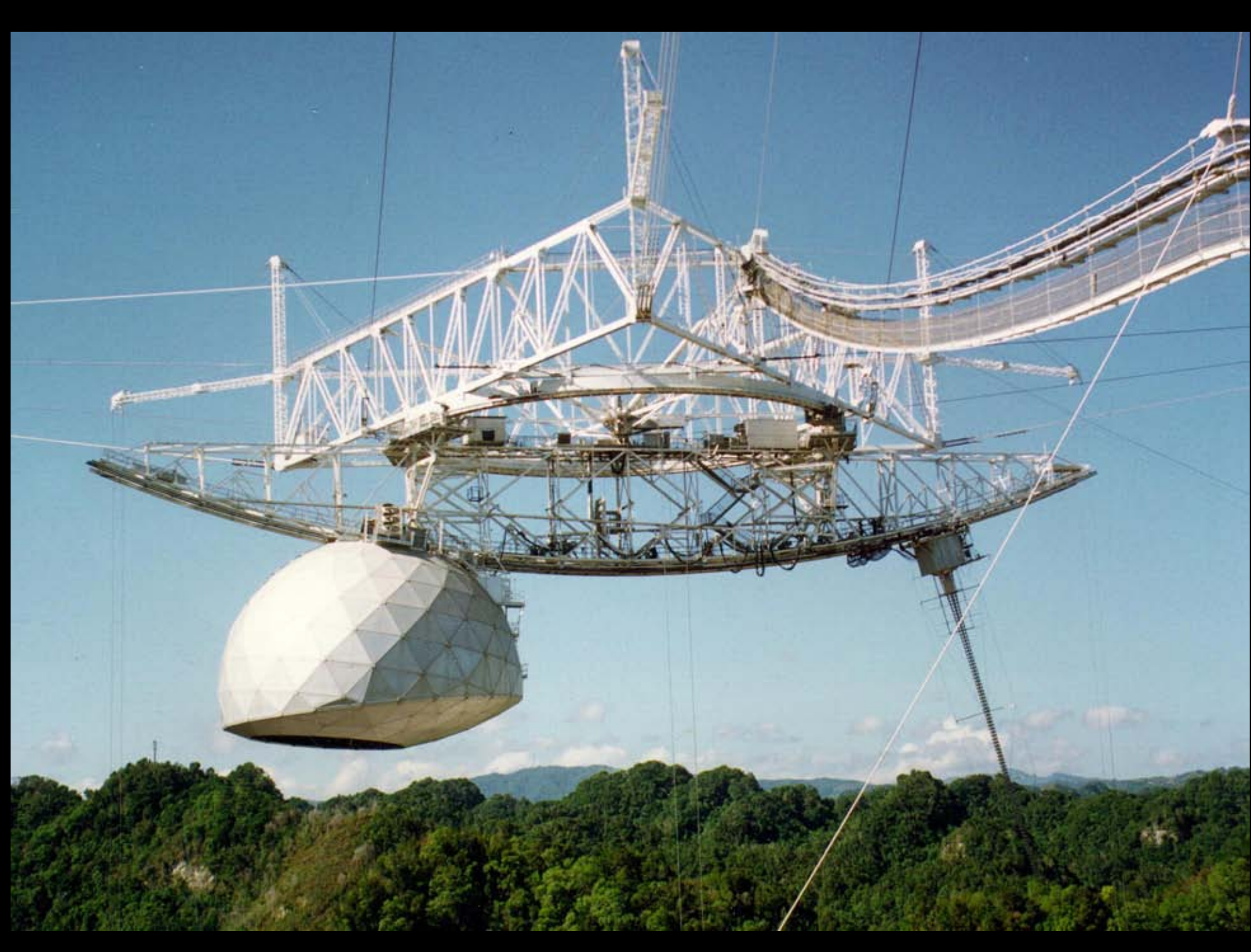


KP4AO

Arecibo Observatory
Amateur Radio Club



***National Astronomy and Ionosphere Center
Arecibo, Puerto Rico***















CAPACIDAD MAXIMA
5 PERSONAS
CUALQUIER MOMENTO
FIQUE CUANDO LA LUZ
ESTE ENCENDIDA.
PERSONAS CAMINANDO
DIRECCION OPUESTA

MAXIMUM CAPACITY
5 PEOPLE
AT ANY GIVEN TIME
WHEN LIGHT IS ON VERIFY.
PEOPLE WALKING
OPPOSITE DIRECTION.















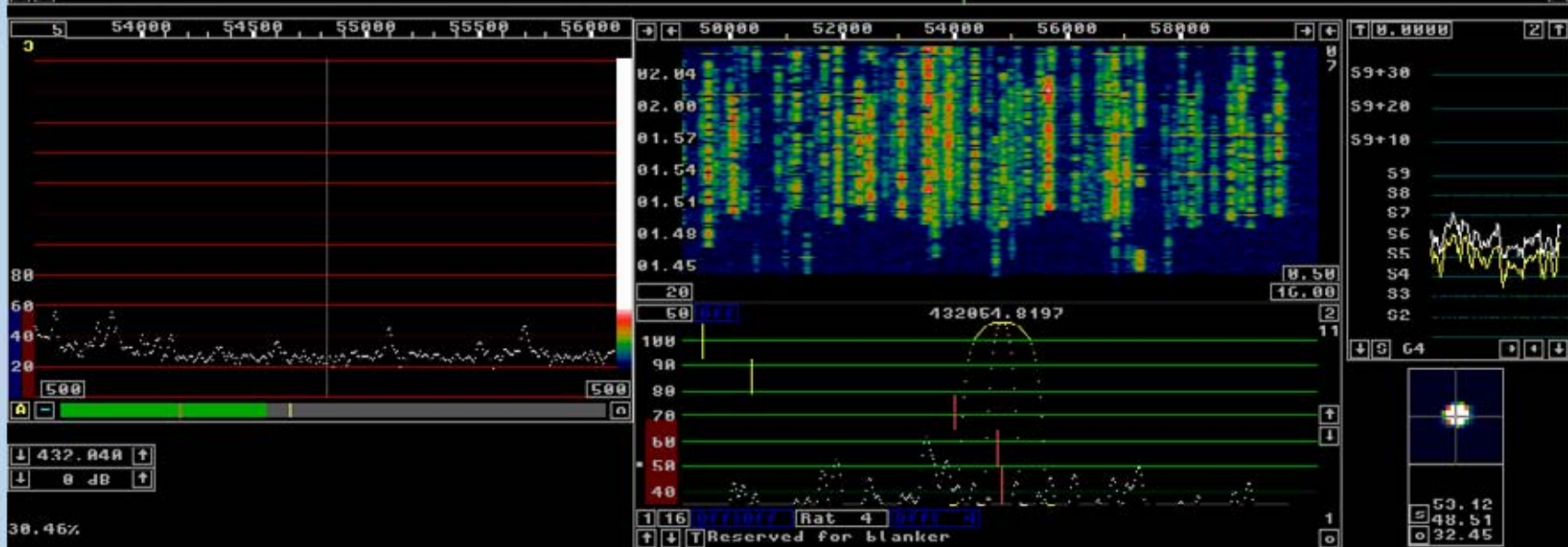
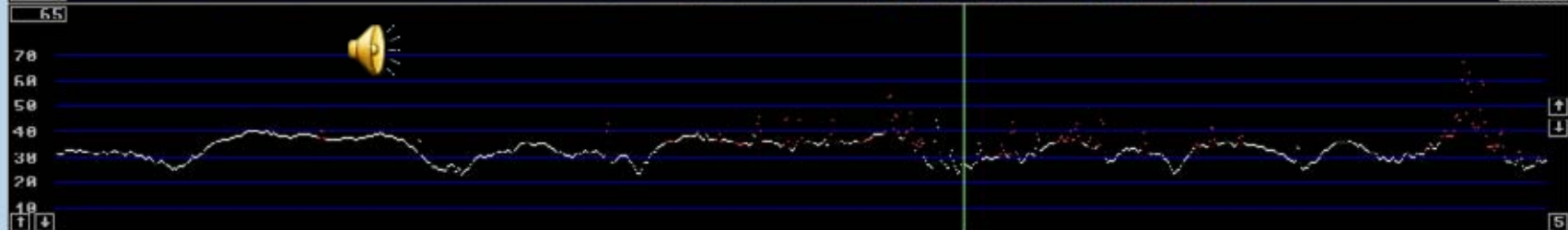
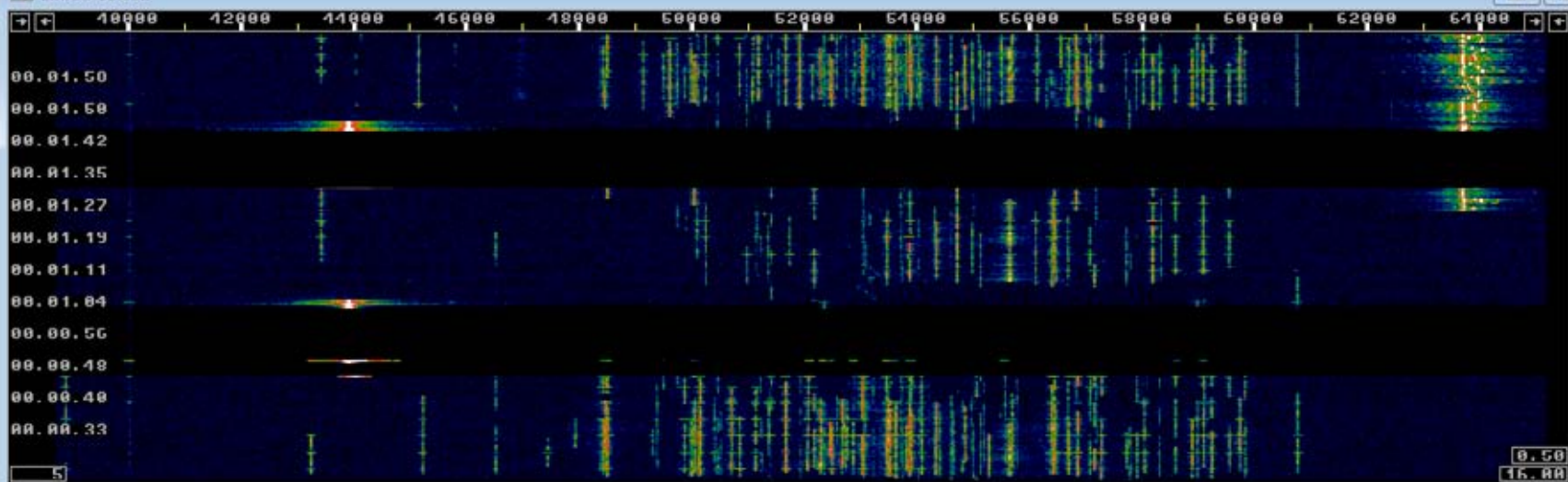














Dr. James
Angel Padilla
Pedro Piza –
Dr. Joseph H. "Joe" T
Angel M. Vazquez



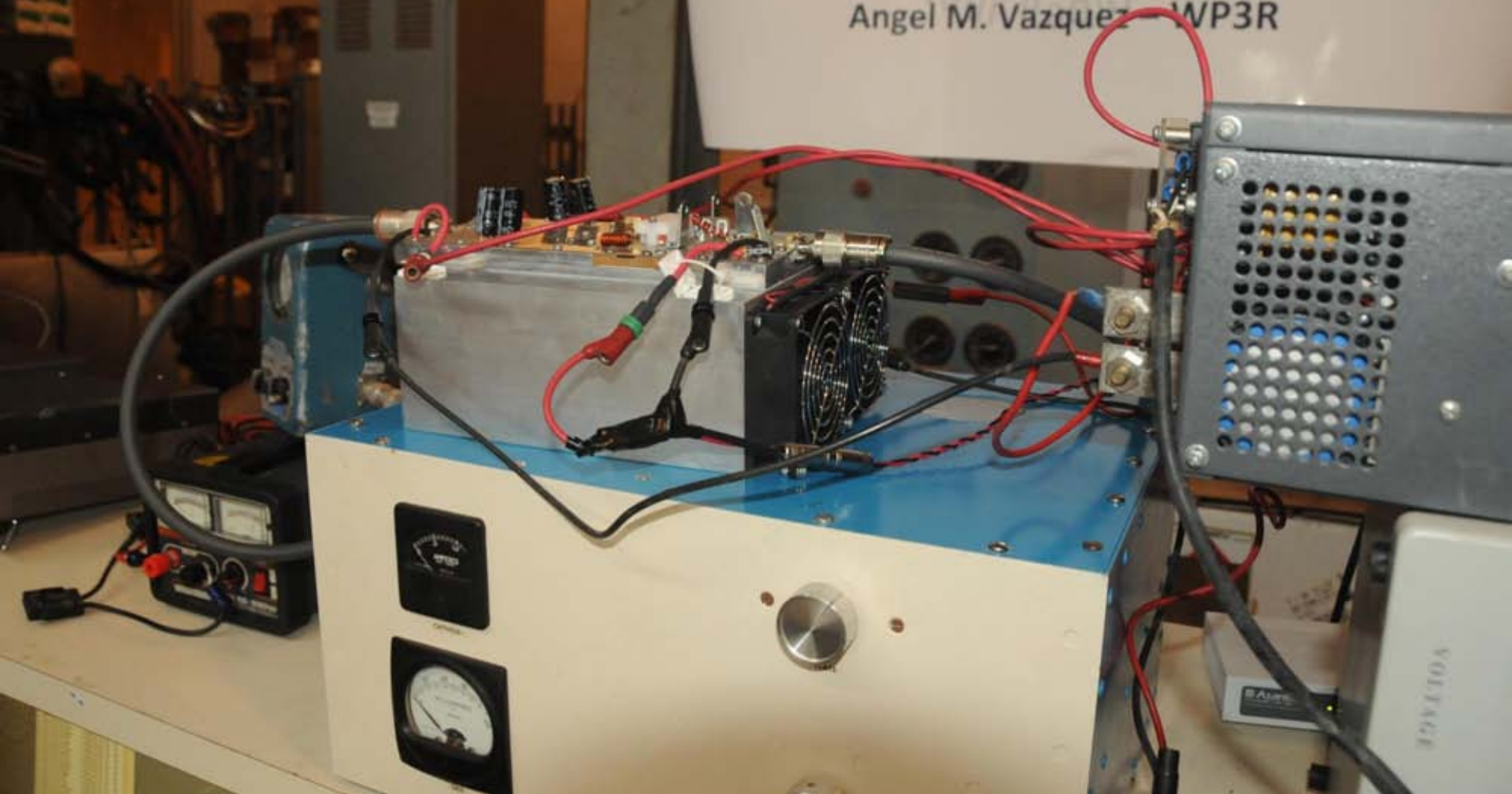
Dr. James K. ...

Angel Padilla – WP4G

Pedro Piza – NP4A

Dr. Joseph H. "Joe" Taylor – K1JT

Angel M. Vazquez – WP3R





SpecJT by K1JT

Options

Freq: 4140 DF: 2870 (Hz)

3W

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Speed:

☒ 1

☐ 2

☐ 3

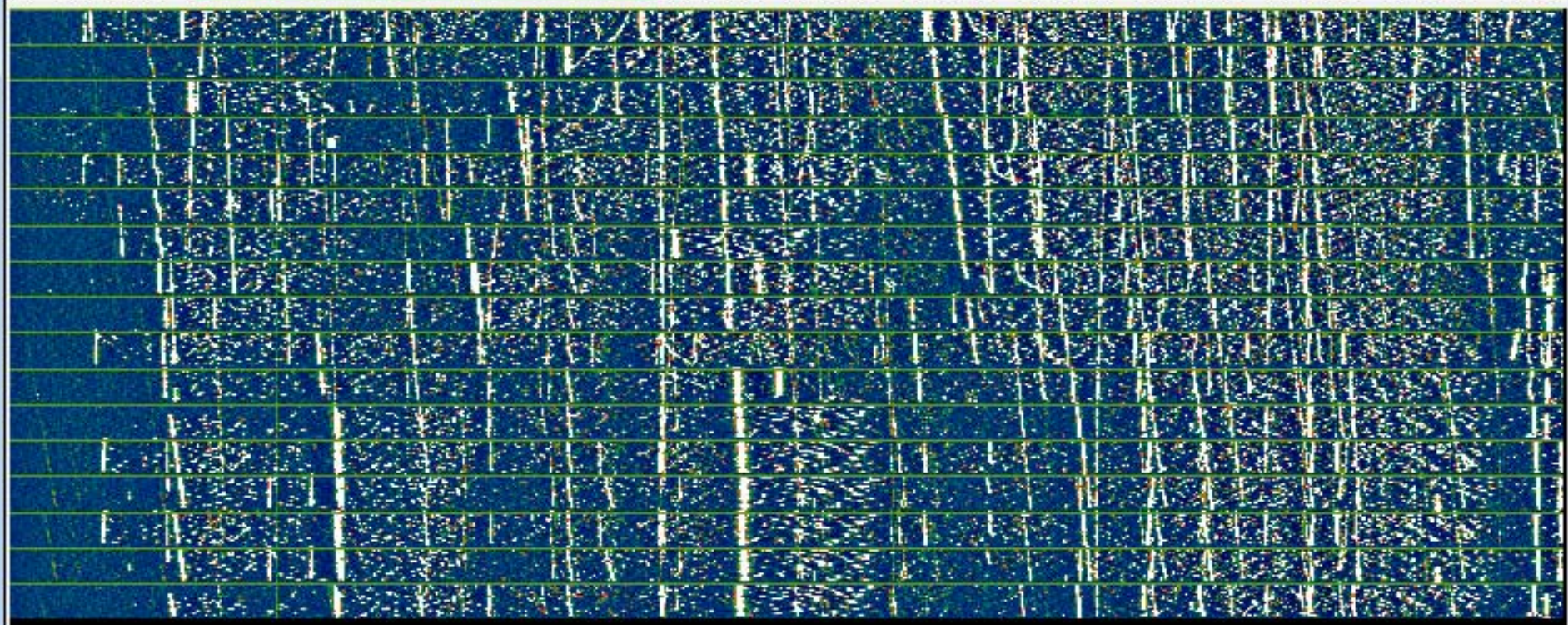
☐ 4

☐ 5

☐ H1

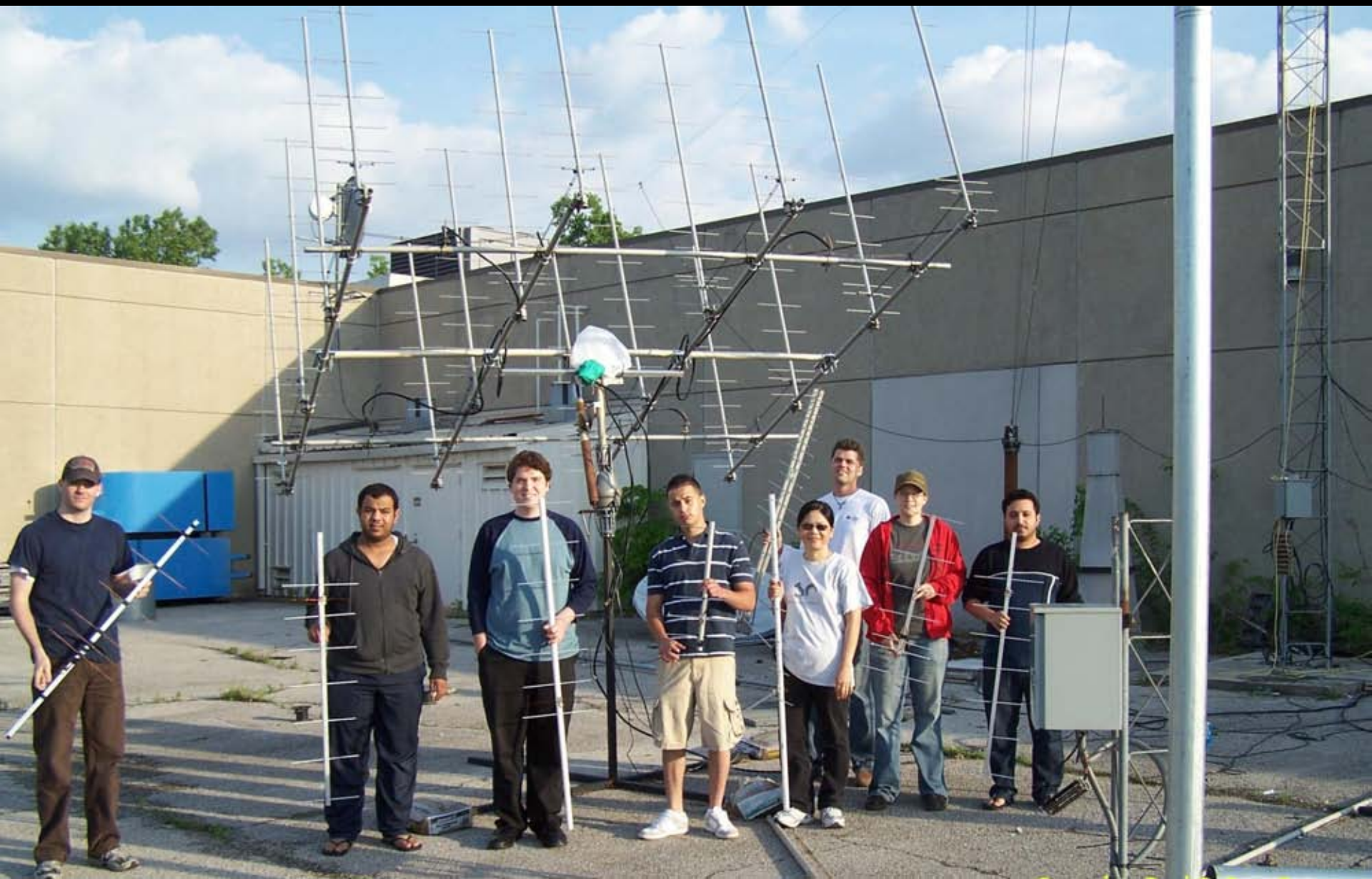
☐ H2

20 400 600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000 3200 3400 3600 3800 4000 4200



16:47:52

-20 dB

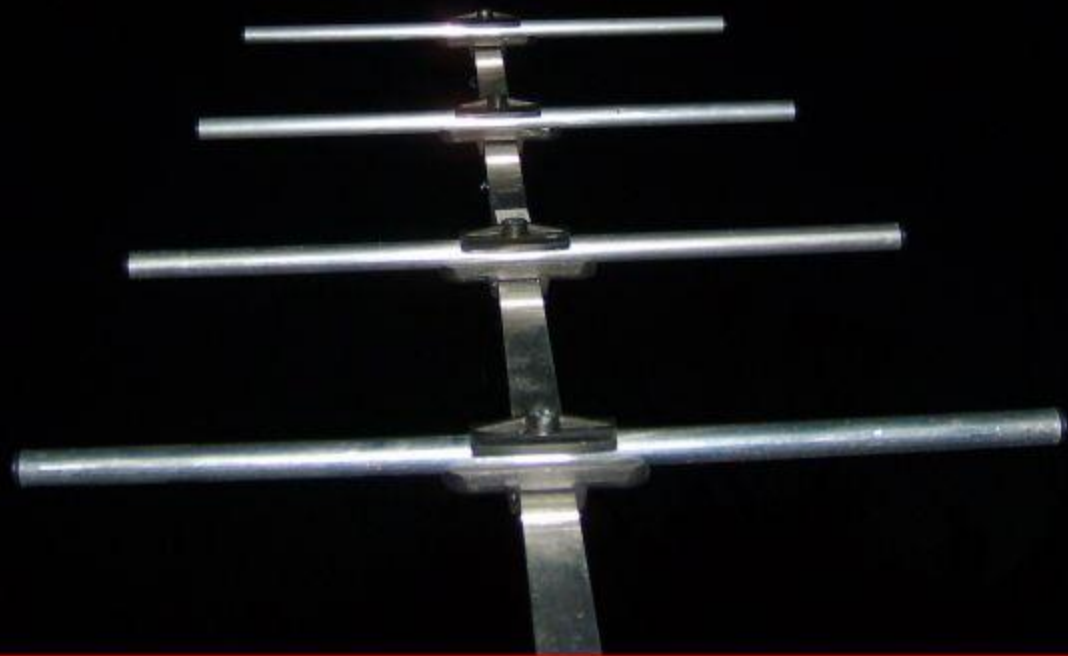


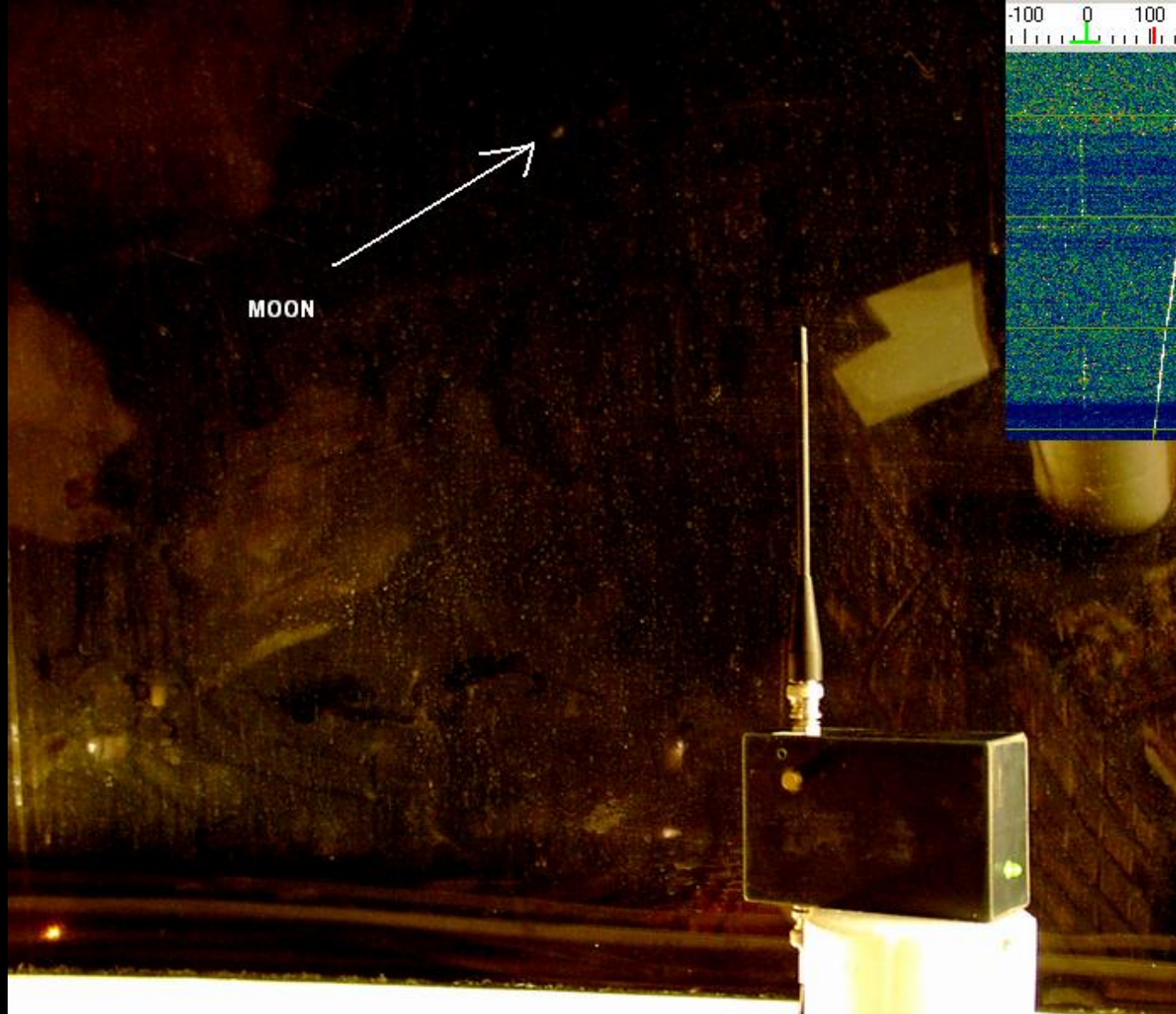












KP4AO Arecibo 432,044 MHz
-23dB EME at OK1TEH
BOX = LNA MGF1502 0,5dB NF gain 15dB

202000 2 -23 3.3 -3 3# N9XG KP4AO FK68 000 1 0

Summary of KP4AO QSOs

	SSB	CW	JT65	Total
Friday	15	74	0	89
Saturday	75	31	0	106
Sunday	16	17	14	14
Totals	106	122	14	242

 **KPSAO EME**
Operators:
Patrick Barthelow - AA4EG
Dr. James K. "Jim" Breakall - WA3FET
Angel Padilla - WP8G
Pedro Piza - NP4A
Dr. Joseph H. "Joe" Taylor - K1JT
Angel M. Vazquez - WP3R



Driver :
Klystron
20 kW peak
1 kW average





**Klystron A
Input**

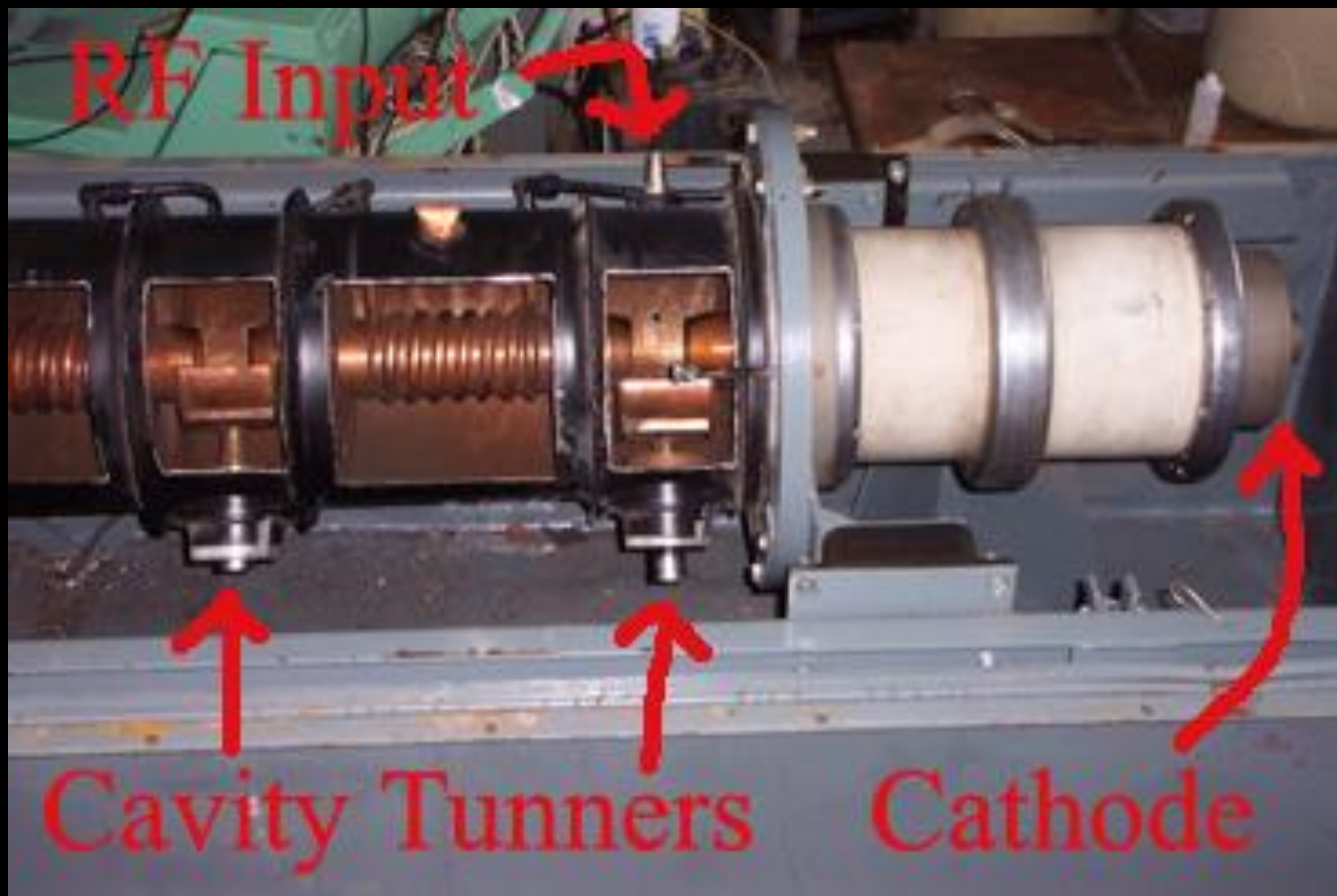
**Variable Transmission
Line that changes Phase**

**Klystron B
Input**

50 Ohm LOAD

PA :
2 Klystrons
2.5 MW peak
150 kW average



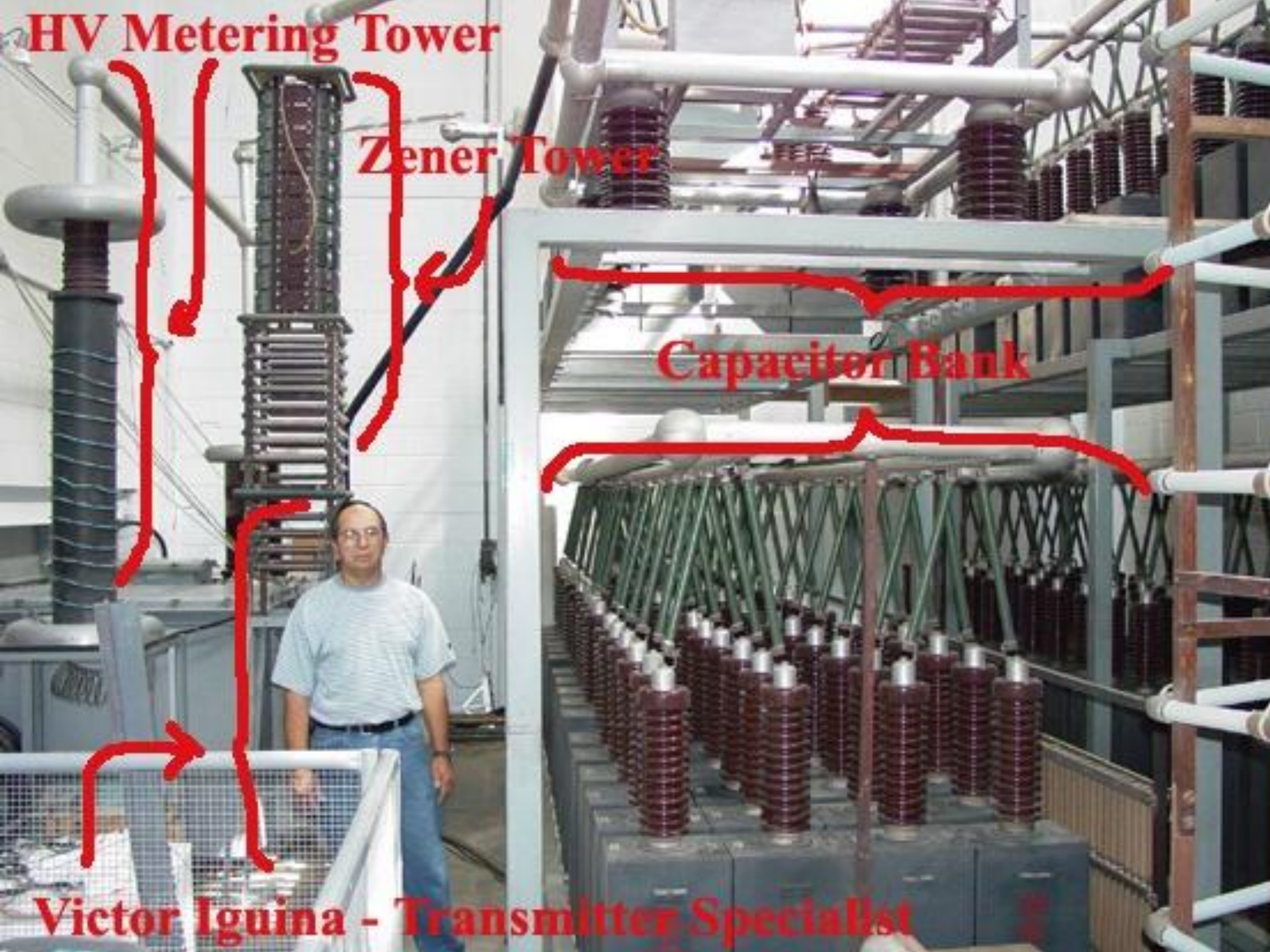




**Harmonic
Filter**

**Antenna Tunner
(behind Harmonic Filter)**

**Klystron's
Vault**



HV Metering Tower

Zener Tower

Capacitor Bank

Victor Iguina - Transmitter Specialist

“Crowbar”

Discharges

$C = 37 \mu\text{F}$

$V = 129 \text{ kV}$

